

10507978

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:37 AM
T : STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

Importance: High

06146078 89161496 PMID: 2922510
Enzyme variation and pathogenicity of recent field isolates of *Eimeria*
tenella.

Shirley M W; Chapman H D; Kucera J; Jeffers T K; Bedrnir P
Institute for Animal Health, Houghton Laboratory, Huntingdon,
Cambridgeshire.

Research in veterinary science (ENGLAND) Jan 1989, 46 (1) p79-83,
ISSN 0034-5288. Journal Code: 0401300

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Ginny Portner
CM1, Art Unit 1645
Room 7e13
Mail box 7e12
(703) 308-7543

10507978

STIC-ILL

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:39 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

Mac/Only

Importance: High

03844132 82256366 PMID: 7103889

Attenuation of a strain of *Eimeria mivati* of U.S. origin by serial embryo passage.

Long P L; Johnson J; Gore T C
Avian diseases (UNITED STATES) Apr-Jun 1982, 26 (2) p305-13, ISSN
0005-2086 Journal Code: 0370617

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS

Ginny Portner
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STIC-ILL

*mm
only*

Fr m: Portner, Ginny
Sent: Thursday, May 15, 2003 11:38 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

4427277 84069417 PMID: 6646805

Studies to determine the taxonomic status of *Eimeria mitis*, Tyzzer 1929
and *E. mivati*, Edgar and Seibold 1964.

Shirley M W; Jeffers T K; Long P L
Parasitology (ENGLAND) Oct 1983, 87 (Pt 2) p185-98, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Ginny Portner
CM1, Art Unit 1645
Room 7e13
Mail box 7e12
(703) 308-7543

STIC-ILL

Vol 10 5/15

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:43 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846

445988

00241090 BIOSIS NO.: 000050056090
EIMERIA -STIEDAE CYTOCHEMICAL IDENTIFICATION OF ENZ ACID PHOSPHATASE AND
ENZ ALKALINE PHOSPHATASES ENZ CARBOXYLIC ESTER HYDROLASES AND ENZ
SUCCINATE DEHYDROGENASE ENZ LACTATE DEHYDROGENASE AND ENZ GLUCOSE-6
PHOSPHATE DEHYDROGENASE IN ENDOGENOUS STAGES FROM RABBIT TISSUES

AUTHOR: FRANDSEN JC

JOURNAL: EXP PARASITOL 23 (3). 398-411. 1968. 1968

FULL JOURNAL NAME: Experimental Parasitology

CODEN: EXPAA

RECORD TYPE: Citation

1056 9598

Ginny Portner
CM1, Art Unit 1645
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Mail box 7e12
(703) 308-7543

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:42 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; reference for updated search

00547925 69079196 PMID: 5701763

Eimeria stiedae: cytochemical identification of acid and alkaline phosphatases, carboxylic ester hydrolases, and succinate(lactate) and glucose-6-phosphate dehydrogenases in endogenous stages from rabbit tissues.

Frandsen J C
Experimental parasitology (UNITED STATES) Dec 1968, 23 (3) p398-411,
ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

1056 9497

Ginny Portner
CM1, Art Unit 1645
Room 7e13
Mail box 7e12
(703) 308-7543

STIC-ILL

Vol no 5115

4405988

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:41 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

Importance: High

01460771 73083928 PMID: 4346146
Enzymes of coccidia: purification and properties of L-lactate dehydrogenase from Eimeria stiedae.

Frandsen J C; Cooper J A
Experimental parasitology (UNITED STATES) Dec 1972, 32 (3) p390-402,
ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS
Tags: Animal

1056 9522

Ginny Portner
CM1, Art Unit 1645
Room 7e13
Mail box 7e12
(703) 308-7543

STIC-ILL

ND 5/15

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:36 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

Importance: High

07362256 92225423 PMID: 1808028
Enzyme variants of *Eimeria* parasitizing the domestic fowl and
possibilities of species diagnostics.

Kucera J
Research Institute for Feed Supplements and Veterinary Drugs, Prague,
Czechoslovakia.
Folia parasitologica (CZECHOSLOVAKIA) 1991, 38 (3) p193-9, ISSN
0015-5683 Journal Code: 0065750
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS

Ginny Portner
CM1, Art Unit 1645
Room 7e13
Mail box 7e12
(703) 308-7543

5/16/03
COMPLETED
8
72

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:40 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

4445985

02903907 79078933 PMID: 726560
Electrophoretic variation of enzymes: a further marker for genetic
studies of the *Eimeria*.

Shirley M W
Zeitschrift fur Parasitenkunde (Berlin, Germany) (GERMANY, WEST) Sep 4
1978, 57 (1) p83-7, ISSN 0044-3255 Journal Code: 8710749
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS

Ginny Portner
CM1, Art Unit 1645
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(703) 308-7543

10522916

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:42 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846

Importance: *High*

10929135 97281360 PMID: 9135668
Monoclonal antibodies against lactate dehydrogenase of Plasmodium knowlesi.

Kaushal D C; Kaushal N A; Chandra D
Division of Microbiology, Central Drug Research Institute, Lucknow,
India.

Indian journal of experimental biology (INDIA) Jan 1995, 33 (1)
p6-11, ISSN 0019-5189 Journal Code: 0233411

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Ginny Portner
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(703) 308-7543

455986

1056 9479

STIC-ILL

Vol 10 515

445984

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:40 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

02477294 77167679 PMID: 859094
Isoelectric focusing of coccidial enzymes.
Shirley M W; Lee D L

Journal of parasitology (UNITED STATES) Apr 1977, 63 (2) p390-2,
ISSN 0022-3395 Journal Code: 7803124

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: Eimeria --enzymology--EN; Isoelectric Focusing; Isoenzymes;
Lactate Dehydrogenase --isolation and purification--IP

CAS Registry No.: 0 (Isoenzymes)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)

Record Date Created: 19770630

10569453

Ginny Portner
CM1, Art Unit 1645
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STIC-ILL

10568963

NO 5115

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:43 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846

Importance: High

06736560 90362597 PMID: 2144028
Identification of *Eimeria brunetti* using glucose phosphate isomerase
and lactate dehydrogenase.

Nakamura T; Kawaguchi H; Imose J
Aburahi Laboratories, Shionogi Research Laboratories, Shionogi & Co.,
Ltd., Shiga, Japan.
Nippon juigaku zasshi. The Japanese journal of veterinary science (JAPAN)
Aug 1990, 52 (4) p859-60, ISSN 0021-5295 Journal Code: 0057113
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Ginny Portner
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BL - NO

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save temp
Temp SearchSave "TD698" stored
?rf
Your last SELECT statement was:
  S EIMER?/TI (100N) (LACTATE? (2N) DEHYDROGENA?)

Ref      Items    File
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N1       3       5: Biosis Previews(R) _1969-2003/May W2
N2       3       399: CA SEARCH(R) _1967-2003/UD=13820
N3       2       50: CAB Abstracts _1972-2003/Apr
N4       2       155: MEDLINE(R) _1966-2003/May W2
N5       2*      398: CHEMSEARCH(TM) _1957-2003/Apr
N6       2       440: Current Contents Search(R) _1990-2003/May 15
N7       1       10: AGRICOLA _70-2003/May
N8       1       34: SciSearch(R) Cited Ref Sci _1990-2003/May W1
N9       1       94: JICST-EPlus _1985-2003/May W1
N10      1       144: Pascal _1973-2003/May W1

15 files have one or more items; file list includes 281 files.
* One or more search terms are invalid in this file
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- Enter P or PAGE for more -

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?b n4 n1:n3 N5:n15;exs
15may03 10:10:04 User228206 Session D1971.4
$6.36    3.180 DialUnits File411
$6.36    Estimated cost File411
$0.46    TELNET
$6.82    Estimated cost this search
$7.08    Estimated total session cost    3.261 DialUnits
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SYSTEM:OS - DIALOG OneSearch
File 155: MEDLINE(R) 1966-2003/May W2
(c) format only 2003 The Dialog Corp.
*File 155: Medline has been reloaded and accession numbers have
changed. Please see HELP NEWS 155.
File 5: Biosis Previews(R) 1969-2003/May W2
(c) 2003 BIOSIS
*File 5: Alert feature enhanced for multiple files, duplicates
removal, customized scheduling. See HELP ALERT.
File 399: CA SEARCH(R) 1967-2003/UD=13820
(c) 2003 American Chemical Society
*File 399: Use is subject to the terms of your user/customer agreement.
Alert feature enhanced for multiple files, etc. See HELP ALERT.
File 50: CAB Abstracts 1972-2003/Apr
(c) 2003 CAB International
*File 50: Truncating CC codes is recommended for full retrieval.
See Help News50 for details.
File 398: CHEMSEARCH(TM) 1957-2003/Apr
(c) 2003 Amer.Chem.Soc.
*File 398: Use is subject to the terms of your user/customer agreement.
Problems with SORT. RANK charge added. See HELP RATES 398.
File 440: Current Contents Search(R) 1990-2003/May 15
(c) 2003 Inst for Sci Info
*File 440: Daily alerts are now available.
File 10: AGRICOLA 70-2003/May
(c) format only 2003 The Dialog Corporation
File 34: SciSearch(R) Cited Ref Sci 1990-2003/May W1
(c) 2003 Inst for Sci Info
*File 34: Alert feature enhanced for multiple files, duplicates
removal, customized scheduling. See HELP ALERT.
File 94: JICST-EPlus 1985-2003/May W1
(c) 2003 Japan Science and Tech Corp (JST)
File 144: Pascal 1973-2003/May W1
(c) 2003 INIST/CNRS
File 340: CLAIMS(R)/US Patent 1950-03/May 13
(c) 2003 IFI/CLAIMS(R)
*File 340: The Claims U.S. Patent databases have been reloaded.
HELP NEWS340 & HELP ALERTS340 for search, display & Alert info.
```

File 342:Derwent Patents Citation Indx 1978-01/200301
(c) 2003 Thomson Derwent
***File 342: Updates 200160-200209 replaced. See HELP NEWS 342.**
Alert feature enhanced for multiple files, etc. See HELP ALERT.
File 345:Inpadoc/Fam.& Legal Stat 1968-2003/UD=200318
(c) 2003 EPO
File 357:Derwent Biotech Res. 1982-2003/May W2
(c) 2003 Thomson Derwent & ISI
***File 357: File is now current. See HELP NEWS 357.**
Alert feature enhanced for multiple files, etc. See HELP ALERT.
File 654:US PAT.FULL. 1976-2003/May 13
(c) FORMAT ONLY 2003 THE DIALOG CORP.
***File 654: Reassignments current through Feb. 7, 2003**

Set	Items	Description
Executing	TD698	
>>>SET HIGHLIGHT: use ON, OFF, or 1-5 characters		
>>>Term "TI" is not defined in one or more files		
31532	EIMER?/TI	
321385	LACTATE?	
650445	DEHYDROGENA?	
S1	23	EIMER?/TI (100N) (LACTATE? (2N) DEHYDROGENA?)

?rd
>>>Duplicate detection is not supported for File 398.
>>>Duplicate detection is not supported for File 340.
>>>Duplicate detection is not supported for File 342.
>>>Duplicate detection is not supported for File 345.
>>>Duplicate detection is not supported for File 654.

>>>Records from unsupported files will be retained in the RD set.
>>>Record 440:2216761 ignored; incomplete bibliographic data, not retained
in RD set
...completed examining records
S2 12 RD (unique items)
?t s2/3,kwic/all
>>>KWIC option is not available in file(s): 398, 399

2/3,KWIC/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

06736560 90362597 PMID: 2144028
Identification of *Eimeria brunetti* using glucose phosphate isomerase
and lactate dehydrogenase .
Nakamura T; Kawaguchi H; Imose J
Aburahi Laboratories, Shionogi Research Laboratories, Shionogi & Co.,
Ltd., Shiga, Japan.
Nippon juigaku zasshi. The Japanese journal of veterinary science (JAPAN)
Aug 1990, 52 (4) p859-60, ISSN 0021-5295 Journal Code: 0057113
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Identification of *Eimeria brunetti* using glucose phosphate isomerase
and lactate dehydrogenase .

2/3,KWIC/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

01460771 73083928 PMID: 4346146
Enzymes of coccidia: purification and properties of L- lactate
dehydrogenase from *Eimeria stiedae*.
Frandsen J C; Cooper J A
Experimental parasitology (UNITED STATES) Dec 1972, 32 (3) p390-402,
ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Enzymes of coccidia: purification and properties of L- lactate dehydrogenase from *Eimeria stiedae*.

2/3, KWIC/3 (Item 1 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

(c) 2003 BIOSIS. All rts. reserv.

01204544 BIOSIS NO.: 000056014746

ENZYME OF COCCIDIA PURIFICATION AND PROPERTIES OF L LACTATE DEHYDROGENASE EC-1.1.1.27 FROM EIMERIA -STIEDAE

AUTHOR: FRANDSEN J C; COOPER J A

JOURNAL: EXP PARASITOL 32 (3). 1972 (RECD 1973) 390-402. 1972

FULL JOURNAL NAME: Experimental Parasitology

CODEN: EXPAA

RECORD TYPE: Citation

ENZYME OF COCCIDIA PURIFICATION AND PROPERTIES OF L LACTATE DEHYDROGENASE EC-1.1.1.27 FROM EIMERIA -STIEDAE

2/3, KWIC/4 (Item 2 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

(c) 2003 BIOSIS. All rts. reserv.

00241090 BIOSIS NO.: 000050056090

EIMERIA -STIEDAE CYTOCHEMICAL IDENTIFICATION OF ENZ ACID PHOSPHATASE AND ENZ ALKALINE PHOSPHATASES ENZ CARBOXYLIC ESTER HYDROLASES AND ENZ SUCCINATE DEHYDROGENASE ENZ LACTATE DEHYDROGENASE AND ENZ GLUCOSE-6 PHOSPHATE DEHYDROGENASE IN ENDOGENOUS STAGES FROM RABBIT TISSUES

AUTHOR: FRANDSEN J C

JOURNAL: EXP PARASITOL 23 (3). 398-411. 1968. 1968

FULL JOURNAL NAME: Experimental Parasitology

CODEN: EXPAA

RECORD TYPE: Citation

EIMERIA -STIEDAE CYTOCHEMICAL IDENTIFICATION OF ENZ ACID PHOSPHATASE AND ENZ ALKALINE PHOSPHATASES ENZ CARBOXYLIC ESTER HYDROLASES AND ENZ SUCCINATE DEHYDROGENASE ENZ LACTATE DEHYDROGENASE AND ENZ GLUCOSE-6 PHOSPHATE DEHYDROGENASE IN ENDOGENOUS STAGES FROM RABBIT TISSUES

2/3, KWIC/5 (Item 1 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

(c) 2003 American Chemical Society. All rts. reserv.

126263156 CA: 126(20)263156h PATENT

Eimeria lactate dehydrogenase cDNA sequence and vector and vaccine for protecting poultry against coccidiosis

INVENTOR(AUTHOR): Kok, Jacobus Johannes; van den Boogaart, Paul; Vermeulen, Arnoldus Nicolaas

LOCATION: Neth.

ASSIGNEE: Akzo Nobel N.V.

PATENT: Canada Pat Appl ; CA 2180309 AA DATE: 19970104

APPLICATION: CA 2180309 (19960702) *EP 95201801 (19950703)

PAGES: 50 pp. CODEN: CPXXEB LANGUAGE: English CLASS: C12N-015/53A; C12N-009/04B; C07K-016/40B; A61K-039/012B

2/3, KWIC/6 (Item 1 from file: 398)

DIALOG(R) File 398:CHEMSEARCH(TM)

(c) 2003 Amer.Chem.Soc. All rts. reserv.

CAS REGISTRY NUMBER: 188856-68-0

MOLECULAR FORMULA: Unknown

CA NAME(S):

HP=Dehydrogenase, lactate (Eimeria acervulina strain Houghton) (9CI)

2/3, KWIC/7 (Item 2 from file: 398)

DIALOG(R) File 398:CHEMSEARCH(TM)

(c) 2003 Amer.Chem.Soc. All rts. reserv.

CAS REGISTRY NUMBER: 187043-46-5

MOLECULAR FORMULA: Unknown

REPLACED CAS REGISTRY NUMBER(S) : 188856-67-9

CA NAME(S):

HP=DNA (swine clone pWSPh.01 cytidine monophosphoacetylneuraminate monooxygenase cDNA plus flanks) (9CI)

HP=DNA (pig clone pWSPh.01 cytidine monophosphoacetylneuraminate monooxygenase cDNA plus flanks)

SYNONYMS: Deoxyribonucleic acid (pig clone pWSPh.01 cytidine monophosphoacetylneuraminate monooxygenase cDNA plus flanks); DNA (Eimeria acervulina strain Houghton lactate dehydrogenase cDNA plus flanks)

2/3, KWIC/8 (Item 1 from file: 340)

DIALOG(R) File 340: CLAIMS(R) /US Patent

(c) 2003 IFI/CLAIMS(R). All rts. reserv.

3365083 0024872

C/COCCIDIOSIS POULTRY VACCINE; NUCLEIC ACIDS ENCODING AN IMMUNOGENIC FRAGMENT OF EIMERIA LACTATE DEHYDROGENASE (LDH) WHICH WILL REACT WITH ANTISERUM RAISED AGAINST THE LDH; PREPARING A VECTOR VACCINE AGAINST COCCIDIOSIS; ADMINISTERING TO PREVENT COCCIDIOSIS IN BIRDS

Inventors: van den Boogaart Paul (NL); Kok Jacobus Johannes (NL); Vermeulen Arnodus Nicolaas (NL)

Assignee: Akzo Nobel N V NL

Assignee Code: 33913

Kind	Publication Number	Date	Application	
			Number	Date
A	US 6100241	20000808	US 96676882	19960703
Priority Applic:			EP 95201801	19950703

Calculated Expiration: 20160703

...NUCLEIC ACIDS ENCODING AN IMMUNOGENIC FRAGMENT OF EIMERIA LACTATE DEHYDROGENASE (LDH) WHICH WILL REACT WITH ANTISERUM RAISED AGAINST THE LDH; PREPARING A VECTOR VACCINE AGAINST...

2/3, KWIC/9 (Item 1 from file: 342)

DIALOG(R) File 342: Derwent Patents Citation Indx

(c) 2003 Thomson Derwent. All rts. reserv.

02926615 WPI Acc No: 97-109375/11

Eimeria lactate dehydrogenase protein - used for prodn. of vaccines against coccidiosis in poultry

Patent Assignee: (ALKU) AKZO NOBEL NV

Author (Inventor): KOK J J; VAN DEN BOOGAART P; VERMEULEN A N

Patent (basic)

Patent No	Kind	Date	Examiner	Field of Search
AU 9656287	A	970116	(BASIC)	

Derwent Week (Basic): 9711

Priority Data: EP 95201801 (950703)

Applications: EP 96201818 (960701); NZ 286915 (960701); ZA 965586 (960701); AU 9656287 (960702); CA 2180309 (960702); HU 961809 (960702); JP 96173890 (960703); US 676882 (960703)

Designated States

(Regional): AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC;

NL; PT; SE
Derwent Class: B04; C06; D16
Int Pat Class: A01N-043/04; A61K-031/70; A61K-039/012; C07K-014/435;
C07K-014/455; C07K-016/20; C07K-016/40; C12N-005/10; C12N-009/04;
C12N-015/09; C12N-015/30; C12N-015/53; C12N-015/63; C12P-021/02
Number of Patents: 010
Number of Countries: 025
Number of Cited Patents: 017
Number of Cited Literature References: 015
Number of Citing Patents: 000

2/3,KWIC/10 (Item 1 from file: 345)
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
(c) 2003 EPO. All rts. reserv.

13451402
Basic Patent (No,Kind,Date): CA 2180309 AA 19970104 <No. of Patents: 010>
COCCIDIOSIS POULTRY VACCINE (English; French)
Patent Assignee: AKZO NOBEL NV (NL)
Author (Inventor): KOK JACOBUS JOHANNES (NL); VAN DEN BOOGAART PAUL (NL);
VERMEULEN ARNOLDUS NICOLAAS (NL)
IPC: *C12N-015/53; C12N-009/04; C07K-016/40; A61K-039/012
CA Abstract No: 126(20)263156H
Language of Document: English

Patent Family:

Patent No	Kind	Date	Applc No	Kind	Date
AU 9656287	A1	19970116	AU 9656287	A	19960702
AU 707350	B2	19990708	AU 9656287	A	19960702
CA 2180309	AA	19970104	CA 2180309	A	19960702 (BASIC)
EP 775746	A2	19970528	EP 96201818	A	19960701
EP 775746	A3	19970611	EP 96201818	A	19960701
HU 9601809	AB	19970528	HU 969601809	A	19960702
JP 9048797	A2	19970218	JP 96173890	A	19960703
NZ 286915	A	19980325	NZ 286915	A	19960701
US 6100241	A	20000808	US 676882	A	19960703
ZA 9605586	A	19970131	ZA 965586	A	19960701

Priority Data (No,Kind,Date):
EP 95201801 A 19950703

Dialog File: Inpadoc/Fam.& Legal Stat_1968-2003/UD=200318

2/3,KWIC/11 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
(c) 2003 Thomson Derwent & ISI. All rts. reserv.

0208588 DBR Accession No.: 97-03709 PATENT
Eimeria lactate - dehydrogenase protein and DNA - gene cloning and
vector expression in host cell or organism for fowl recombinant vaccine
construction against coccidiosis
AUTHOR: Kok J J; van den Boogaart P; Vermeulen A N
CORPORATE SOURCE: Arnhem, The Netherlands.
PATENT ASSIGNEE: Akzo-Nobel 1997
PATENT NUMBER: AU 9656287 PATENT DATE: 970116 WPI ACCESSION NO.:
97-109375 (9711)
PRIORITY APPLIC. NO.: EP 95201801 APPLIC. DATE: 950703
NATIONAL APPLIC. NO.: AU 9656287 APPLIC. DATE: 960702
LANGUAGE: English

Eimeria lactate - dehydrogenase protein and DNA

2/3,KWIC/12 (Item 1 from file: 654)
DIALOG(R)File 654:US PAT.FULL.
(c) FORMAT ONLY 2003 THE DIALOG CORP. All rts. reserv.

4362359
Derwent Accession: 1997-109375

Utility

C/ Coccidiosis poultry vaccine; NUCLEIC ACIDS ENCODING AN IMMUNOGENIC
FRAGMENT OF EIMERIA LACTATE DEHYDROGENASE (LDH) WHICH WILL REACT WITH
ANTISERUM RAISED AGAINST THE LDH; PREPARING A VECTOR VACCINE AGAINST
COCCIDIOSIS; ADMINISTERING TO PREVENT COCCIDIOSIS IN BIRDS

Inventor: Kok, Jacobus Johannes, Nijmegen, NL
van den Boogaart, Paul, SC Oss, NL
Vermeulen, Arnodus Nicolaas, Cuyk, NL

Assignee: Akzo Nobel, N.V. (03), NL
Akzo Nobel N V NL (Code: 33913)

Examiner: Crouch, Deborah (Art Unit: 162)

Assistant Examiner: Martin, Jill D.

Combined Principal Attorneys: Gormley, Mary E.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6100241	A	20000808	US 96676882	19960703
Priority				EP 95201801	19950703

Fulltext Word Count: 9585...

0929135 97281360 PMID: 9135668

Monoclonal antibodies against lactate dehydrogenase of **Plasmodium knowlesi**.

Kaushal D C; Kaushal N A; Chandra D
Division of Microbiology, Central Drug Research Institute, Lucknow,
India.

Indian journal of experimental biology (INDIA) Jan 1995 , 33 (1)
p6-11, ISSN 0019-5189 Journal Code: 0233411

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Lactate dehydrogenase (LDH) of malarial **parasites** has been demonstrated to be biochemically and immunochemically distinct from the equivalent host enzyme. The polyclonal antibodies raised against the purified plasmodial LDH showed specificity to **Plasmodium** spp. Six hybridoma cell lines secreting monoclonal antibodies specific to **Plasmodium knowlesi** LDH have been obtained. The two monoclonal antibodies (2A3B7 and 4A6A7) showed high reactivity with LDH from simian (*P. knowlesi*, *P. cynomolgi*), human (*P. falciparum*, *P. vivax*) and rodent (*P. berghei*, *P. yoelii*) malarial **parasites** and did not cross-react with red cell LDH as well as with isoenzymic forms of mammalian LDH (A4, B4 and C4). One monoclonal antibody (4A6A7) strongly inhibited the enzyme activity specifically of plasmodial LDH and did not have any effect on the activity of red cell LDH. The other monoclonal (2A3B7) did not show inhibitory effect on **parasite** LDH. These findings as well as competitive immunoassay studies suggest the presence of at least two **parasite** specific epitopes on plasmodial LDH.

Tags: Animal; Human; Support, Non-U.S. Gov't

Descriptors: Antibodies, Monoclonal; * **Lactate Dehydrogenase** --immunology --IM; ***Plasmodium knowlesi**--immunology--IM; Antibody Specificity; Enzyme-Linked Immunosorbent Assay

CAS Registry No.: 0 (Antibodies, Monoclonal)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)

Record Date Created: 19970604

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General information about the entry

Entry name	Q8I8U3
Primary accession number	Q8I8U3
Secondary accession numbers	None
Entered in TrEMBL in	Release 23, March 2003
Sequence was last modified in	Release 23, March 2003
Annotations were last modified in	Release 24, June 2003

Name and origin of the protein

Protein name	Lactate dehydrogenase
Synonyms	None
Gene name	LDH
From	<u>Eimeria maxima</u> [TaxID: 5804]
Taxonomy	<u>Eukaryota</u> ; <u>Alveolata</u> ; <u>Apicomplexa</u> ; <u>Coccidia</u> ; <u>Eimeriida</u> ; <u>Eimeriidae</u> ; <u>Eimeria</u> .

References

[1]	SEQUENCE FROM NUCLEIC ACID. <u>Schaap D.C.:</u> "Characterization and cloning of lactate dehydrogenase from three <i>Eimeria</i> species."; Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
[2]	SEQUENCE FROM NUCLEIC ACID. <u>Niessen R., Schaap D.C.:</u> Submitted (AUG-2002) to the EMBL/GenBank/DDBJ databases.

Comments

None

Cross-references

EMBL	AY143390; AAN38977.1; -.	[EMBL / GenBank / DDBJ] [CodingSequence]
InterPro	IPR001236 ; Idh. IPR001557 ; L_LDH. Graphical view of domain structure .	
Pfam	PF00056 ; Idh; 1. PF02866 ; Idh_C; 1.	
PRINTS	PR00086 ; LLDHDRGNASE.	
ProDom	[Domain structure / List of seq. sharing at least 1 domain] .	
ProtoMap	Q8I8U3 .	
PRESAGE	Q8I8U3 .	
ModBase	Q8I8U3 .	
SWISS-2DPAGE	Get region on 2D PAGE .	

Keywords

None

Features

None

Sequence information

Length: 330 AA	Molecular weight: 35951 Da	CRC64: 380CB5B7151B59E8 [This is a checksum on the sequence]
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LDAREAQLLQ	ASIDEVREMH	RQLAAADAAA	E			

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[PeptideMass](#), [PeptideCutter](#),
[Dotlet \(Java\)](#)



[ScanProsite](#),
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General information about the entry

Entry name	Q8I8U4
Primary accession number	Q8I8U4
Secondary accession numbers	None
Entered in TrEMBL in	Release 23, March 2003
Sequence was last modified in	Release 23, March 2003
Annotations were last modified in	Release 24, June 2003

Name and origin of the protein

Protein name	Lactate dehydrogenase
Synonyms	None
Gene name	LDH
From	<u>Eimeria tenella</u> [TaxID: <u>5802</u>]
Taxonomy	<u>Eukaryota</u> ; <u>Alveolata</u> ; <u>Apicomplexa</u> ; <u>Coccidia</u> ; <u>Eimeriida</u> ; <u>Eimeriidae</u> ; <u>Eimeria</u> .

References

[1]	SEQUENCE FROM NUCLEIC ACID. <u>Schaap D.C.:</u> "Characterization and cloning of lactate dehydrogenase from three <i>Eimeria</i> species."; Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
[2]	SEQUENCE FROM NUCLEIC ACID. <u>Arts G., Kroezen H., Schaap D.C.:</u> Submitted (AUG-2002) to the EMBL/GenBank/DDBJ databases.

Comments

None

Cross-references

EMBL	AY143389; AAN38976.1; -.	<u>[EMBL / GenBank / DDBJ]</u> <u>[CodingSequence]</u>
InterPro	<u>IPR001236</u> ; Idh. <u>IPR001557</u> ; L_LDH. <u>Graphical view of domain structure.</u>	
Pfam	<u>PF00056</u> ; Idh; 1. <u>PF02866</u> ; Idh_C; 1.	
PRINTS	<u>PR00086</u> ; LLDHDRGNASE.	
ProDom	<u>[Domain structure / List of seq. sharing at least 1 domain].</u>	
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PRESAGE	<u>Q8I8U4.</u>	
ModBase	<u>Q8I8U4.</u>	
SWISS-2DPAGE	<u>Get region on 2D PAGE.</u>	

Keywords

None

Features

None

Sequence information

Length: 331 AA	Molecular weight: 34965 Da	CRC64: BEF87B9F837AE469 [This is a checksum on the sequence]
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310	320	330				
LNQEEKKLLQ	GSIDEVLEMQ	KAIAALDAGK				

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ID AY143388 standard; RNA; INV; 1567 BP.
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 AC AY143388;
 XX
 SV AY143388.1
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 DT 04-DEC-2002 (Rel. 74, Created)
 DT 04-DEC-2002 (Rel. 74, Last updated, Version 1)
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 DE *Eimeria acervulina* lactate dehydrogenase (LDH) mRNA, complete cds.
 XX
 KW
 XX
 OS *Eimeria acervulina*
 OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida; Eimeriidae;
 OC *Eimeria*.
 XX
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 RP 1-1567
 RA Schaap D.C.;
 RT "Characterization and cloning of lactate dehydrogenase from three *Eimeria* species";
 RL Unpublished.
 XX
 RN [2]
 RP 1-1567
 RA Kok H.J., van den Boogaart P., Vermeulen A.N., Schaap D.C.;
 RT ;
 RL Submitted (20-AUG-2002) to the EMBL/GenBank/DDBJ databases.
 RL Parasitology R&D, Intervet, Wim de Korverstraat, Boxmeer 5830AA, The
 RL Netherlands
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?e lactate dehydrogenase

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E1	74		LACTATE //SODIUM (SODIUM LACTATE)
E2	16		LACTATE DEHYDRATASE
E3	27809	4	*LACTATE DEHYDROGENASE
E4	9		LACTATE DEHYDROGENASE --ADMINISTRATION AND DOS
E5	4		LACTATE DEHYDROGENASE --ADVERSE EFFECTS --AE
E6	4463		LACTATE DEHYDROGENASE --ANALYSIS --AN
E7	606		LACTATE DEHYDROGENASE --ANTAGONISTS AND INHIBI
E8	310		LACTATE DEHYDROGENASE --BIOSYNTHESIS --BI
E9	8278		LACTATE DEHYDROGENASE --BLOOD --BL
E10	275		LACTATE DEHYDROGENASE --CEREBROSPINAL FLUID --
E11	4		LACTATE DEHYDROGENASE --CHEMICAL SYNTHESIS --C
E12	382		LACTATE DEHYDROGENASE --CHEMISTRY --CH

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Ref	Items	Index-term
E13	23	LACTATE DEHYDROGENASE --CLASSIFICATION --CL
E14	107	LACTATE DEHYDROGENASE --DEFICIENCY --DF
E15	56	LACTATE DEHYDROGENASE --DIAGNOSTIC USE --DU
E16	269	LACTATE DEHYDROGENASE --DRUG EFFECTS --DE
E17	759	LACTATE DEHYDROGENASE --GENETICS --GE
E18	223	LACTATE DEHYDROGENASE --IMMUNOLOGY --IM
E19	619	LACTATE DEHYDROGENASE --ISOLATION AND PURIFICA
E20	11602	LACTATE DEHYDROGENASE --METABOLISM --ME
E21	14	LACTATE DEHYDROGENASE --PHARMACOKINETICS --PK
E22	52	LACTATE DEHYDROGENASE --PHARMACOLOGY --PD
E23	66	LACTATE DEHYDROGENASE --PHYSIOLOGY --PH
E24	101	LACTATE DEHYDROGENASE --RADIATION EFFECTS --RE

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E25	612	LACTATE DEHYDROGENASE --SECRETION --SE
E26	11	LACTATE DEHYDROGENASE --STANDARDS --ST
E27	5	LACTATE DEHYDROGENASE --THERAPEUTIC USE --TU
E28	2	LACTATE DEHYDROGENASE --TOXICITY --TO
E29	11	LACTATE DEHYDROGENASE --ULTRASTRUCTURE --UL
E30	406	LACTATE DEHYDROGENASE --URINE --UR
E31	14	LACTATE DEHYDROGENASE C4
E32	16	LACTATE DEHYDROGENASE 1
E33	2	LACTATE DEHYDROGENASE 2
E34	1	LACTATE DEHYDROGENASE 3
E35	2	LACTATE DEHYDROGENASE 4
E36	26	LACTATE DEHYDROGENASE 5

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E38	1		LACTATE DEHYDROGENASE-ELEVATING VIRUS --ANALYS
E39	7		LACTATE DEHYDROGENASE-ELEVATING VIRUS --CHEMIS
E40	9		LACTATE DEHYDROGENASE-ELEVATING VIRUS --CLASSI
E41	8		LACTATE DEHYDROGENASE-ELEVATING VIRUS --DRUG E
E42	1		LACTATE DEHYDROGENASE-ELEVATING VIRUS --ENZYMO
E43	36		LACTATE DEHYDROGENASE-ELEVATING VIRUS --GENETI
E44	19		LACTATE DEHYDROGENASE-ELEVATING VIRUS --GROWTH

E45	108	LACTATE DEHYDROGENASE-ELEVATING VIRUS --IMMUNO
E46	23	LACTATE DEHYDROGENASE-ELEVATING VIRUS --ISOLAT
E47	11	LACTATE DEHYDROGENASE-ELEVATING VIRUS --METABO
E48	31	LACTATE DEHYDROGENASE-ELEVATING VIRUS --PATHOG

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27809	LACTATE DEHYDROGENASE
9	LACTATE DEHYDROGENASE --ADMINISTRATION AND DOS
4	LACTATE DEHYDROGENASE --ADVERSE EFFECTS --AE
4463	LACTATE DEHYDROGENASE --ANALYSIS --AN
606	LACTATE DEHYDROGENASE --ANTAGONISTS AND INHIBI
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406	LACTATE DEHYDROGENASE --URINE --UR
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S1 27809 E3-E36

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S2 27809	'LACTATE DEHYDROGENASE' OR DC='D8.586.682.47.547.'

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R4	0	X	1	CRYSTALLINS, EPSILON
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R6	27809	B	4	LACTATE DEHYDROGENASE

?s r6

S3 27809 'LACTATE DEHYDROGENASE'

?e lactate dehydrogenase

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E1	74		LACTATE //SODIUM (SODIUM LACTATE)

E2	16	LACTATE DEHYDRATASE
E3	27809	4 *LACTATE DEHYDROGENASE
E4	9	LACTATE DEHYDROGENASE --ADMINISTRATION AND DOS
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E7	606	LACTATE DEHYDROGENASE --ANTAGONISTS AND INHIBI
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E11	4	LACTATE DEHYDROGENASE --CHEMICAL SYNTHESIS --C
E12	382	LACTATE DEHYDROGENASE --CHEMISTRY --CH

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E23	66	LACTATE DEHYDROGENASE --PHYSIOLOGY --PH
E24	101	LACTATE DEHYDROGENASE --RADIATION EFFECTS --RE

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E25	612	LACTATE DEHYDROGENASE --SECRETION --SE
E26	11	LACTATE DEHYDROGENASE --STANDARDS --ST
E27	5	LACTATE DEHYDROGENASE --THERAPEUTIC USE --TU
E28	2	LACTATE DEHYDROGENASE --TOXICITY --TO
E29	11	LACTATE DEHYDROGENASE --ULTRASTRUCTURE --UL
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E38	1		LACTATE DEHYDROGENASE-ELEVATING VIRUS --ANALYS
E39	7		LACTATE DEHYDROGENASE-ELEVATING VIRUS --CHEMIS
E40	9		LACTATE DEHYDROGENASE-ELEVATING VIRUS --CLASSI
E41	8		LACTATE DEHYDROGENASE-ELEVATING VIRUS --DRUG E
E42	1		LACTATE DEHYDROGENASE-ELEVATING VIRUS --ENZYMO
E43	36		LACTATE DEHYDROGENASE-ELEVATING VIRUS --GENETI
E44	19		LACTATE DEHYDROGENASE-ELEVATING VIRUS --GROWTH
E45	108		LACTATE DEHYDROGENASE-ELEVATING VIRUS --IMMUNO
E46	23		LACTATE DEHYDROGENASE-ELEVATING VIRUS --ISOLAT
E47	11		LACTATE DEHYDROGENASE-ELEVATING VIRUS --METABO
E48	31		LACTATE DEHYDROGENASE-ELEVATING VIRUS --PATHOG

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E49	43	LACTATE DEHYDROGENASE-ELEVATING VIRUS --PHYSIO
E50	1	LACTATE DEHYDROGENASE-ELEVATING VIRUS --RADIAT

?p

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E6	1	LACTATE-2-SULFATE SULFATASE
E7	1	LACTATEA
E8	1	LACTATECARBONYL
E9	1	LACTATEC14
E10	1358	LACTATED
E11	1	LACTATEDEHYDROGENASE
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S1	27809	E3-E36
S2	27809	'LACTATE DEHYDROGENASE' OR DC='D8.586.682.47.547.'
S3	27809	'LACTATE DEHYDROGENASE'
?s (s1 or s2 or s3) and (eimeri? or coccidi? or parasit? or merozoit? or sporozoit?)	27809	S1
	27809	S2
	27809	S3
	3195	EIMERI?
	7891	COCCIDI?
	116381	PARASIT?
	2292	MEROZOIT?
	2734	SPOROZOIT?
S4	237	(S1 OR S2 OR S3) AND (EIMERI? OR COCCIDI? OR PARASIT? OR MEROZOIT? OR SPOROZOIT?)
?s s4/1996:2003	237	S4
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	82	S5
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?s s6/1995	155	S6
	416695	PY=1995
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?s s6 not s7	155	S6
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?s s8 and eimer?	148	S8
	3216	EIMER?
	S9	20 S8 AND EIMER?

?t s9/9/all

9/9/1
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07362256 92225423 PMID: 1808028
Enzyme variants of *Eimeria* parasitizing the domestic fowl and
possibilities of species diagnostics.
Kucera J
Research Institute for Feed Supplements and Veterinary Drugs, Prague,
Czechoslovakia.
Folia parasitologica (CZECHOSLOVAKIA) 1991, 38 (3) p193-9, ISSN
0015-5683 Journal Code: 0065750
Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Electrophoretic variation of the enzymes lactate dehydrogenase (LDH) and glucosephosphate isomerase (GPI) of *Eimeria* parasitizing the domestic fowl in Czechoslovakia is summarized and the differentiation of species of poultry coccidia is discussed. A new method for evaluation of zymograms of coccidial enzymes is presented. This method enables the results of different experiments to be compared by calculating standardized rates of mobility of each enzyme band relative to the positions of reference variants coded LDH-8 or GPI-9.

Tags: Animal; Comparative Study; Male

Descriptors: Coccidiosis --veterinary--VE; * *Eimeria* --classification--CL; *Glucose-6-Phosphate Isomerase--analysis--AN; * Lactate Dehydrogenase --analysis--AN; *Poultry Diseases-- parasitology --PS; Chick Embryo; Chickens; Coccidiosis -- parasitology --PS; Czechoslovakia; *Eimeria* --enzymology--EN; Electrophoresis, Starch Gel; Poultry; Retrospective Studies

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19920518

Record Date Completed: 19920518

9/9/2

DIALOG(R) File 155: MEDLINE(R)

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07299917 92162849 PMID: 1790225

Enzyme variation of *Eimeria acervulina* and *E. tenella* isolated from poultry farms in Japan.

Nakamura T; Kawaguchi H; Imose J; Ogimoto K
Aburahi Laboratory, Shionogi Research Laboratories, Shionogi & Co., Ltd., Shiga, Japan.

Journal of veterinary medical science / the Japanese Society of Veterinary Science (JAPAN) Dec 1991, 53 (6) p1101-3, ISSN 0916-7250

Journal Code: 9105360

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal; Comparative Study

Descriptors: Chickens-- parasitology --PS; * Coccidiosis --veterinary--VE; * *Eimeria* --enzymology--EN; * *Eimeria tenella*--enzymology--EN; *Poultry Diseases-- parasitology --PS; Coccidiosis -- parasitology --PS; *Eimeria* --classification--CL; *Eimeria tenella*--classification--CL; Electrophoresis, Starch Gel; Feces-- parasitology --PS; Glucose-6-Phosphate Isomerase --analysis--AN; Japan; Lactate Dehydrogenase --analysis--AN; Phenotype

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19920402

Record Date Completed: 19920402

9/9/3

DIALOG(R) File 155: MEDLINE(R)

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06920706 91161087 PMID: 2488045

Starch gel electrophoresis of lactate dehydrogenase and glucose phosphate isomerase of poultry coccidia using the LKB multiphor.

Kucera J
Research Institute of Feed Supplements and Veterinary Drugs, Jilove, Prague, Czechoslovakia.

Folia parasitologica (CZECHOSLOVAKIA) 1989, 36 (4) p295-9, ISSN 0015-5683 Journal Code: 0065750

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

A modification of thin-layer starch gel horizontal electrophoresis is described. The original method of Wraxall and Culliford (1986) is improved so that the preparation of starch gel is as simple as preparing the agarose gel. Thus the commercially supplied kits and instruments for the agarose gel electrophoresis can be also used for the starch gel electrophoresis. Furthermore, a method of preparing the permanent dry enzymograms from the starch gels with visualized enzymes is presented. The described procedure was used in the LDH and GPI analyses of poultry **coccidia**.

Tags: Animal

Descriptors: **Eimeria** --enzymology--EN; *Glucose-6-Phosphate Isomerase --analysis--AN; * Lactate Dehydrogenase --analysis--AN; Electrophoresis, Starch Gel; Poultry

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19910417

Record Date Completed: 19910417

9/9/4

DIALOG(R) File 155: MEDLINE(R)

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06736560 90362597 PMID: 2144028

Identification of *Eimeria brunetti* using glucose phosphate isomerase and lactate dehydrogenase.

Nakamura T; Kawaguchi H; Imose J

Aburahi Laboratories, Shionogi Research Laboratories, Shionogi & Co., Ltd., Shiga, Japan.

Nippon juigaku zasshi. The Japanese journal of veterinary science (JAPAN) Aug 1990, 52 (4) p859-60, ISSN 0021-5295 Journal Code: 0057113

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: Chickens; * **Eimeria** --enzymology--EN; *Glucose-6-Phosphate Isomerase--analysis--AN; * Lactate Dehydrogenase --analysis--AN; **Coccidiosis** --diagnosis--DI; **Coccidiosis** -- parasitology --PS; **Coccidiosis** --veterinary--VE; **Eimeria** --isolation and purification--IP; Electrophoresis, Starch Gel--veterinary--VE; Feces-- parasitology --PS; Poultry Diseases--diagnosis--DI; Poultry Diseases-- parasitology --PS; Species Specificity; Specific Pathogen-Free Organisms

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19901004

Record Date Completed: 19901004

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DIALOG(R) File 155: MEDLINE(R)

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06146078 89161496 PMID: 2922510

Enzyme variation and pathogenicity of recent field isolates of *Eimeria tenella*.

Shirley M W; Chapman H D; Kucera J; Jeffers T K; Bedrnir P
Institute for Animal Health, Houghton Laboratory, Huntingdon, Cambridgeshire.

Research in veterinary science (ENGLAND) Jan 1989, 46 (1) p79-83, ISSN 0034-5288 Journal Code: 0401300

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Seventy isolates of **Eimeria** tenella, obtained from commercial poultry farms worldwide and four reference laboratory strains were characterised by studies on the electrophoretic mobility of up to three enzymes. All populations possessed the same electrophoretic form of lactate dehydrogenase and malate dehydrogenase and one of two forms of glucose phosphate isomerase. One isolate was characterised by both forms of glucose phosphate isomerase. Studies on several isolates indicated that there was no correlation between the form of glucose phosphate isomerase found and the pathogenicity of an isolate.

Tags: Animal; Comparative Study

Descriptors: **Eimeria** --enzymology--EN; *Glucose-6-Phosphate Isomerase --analysis--AN; * Lactate Dehydrogenase --analysis--AN; *Malate Dehydrogenase--analysis--AN; Chickens-- parasitology --PS; Coccidiosis -- parasitology --PS; Coccidiosis --veterinary--VE; **Eimeria** --isolation and purification--IP; **Eimeria** --pathogenicity--PY; Electrophoresis, Starch Gel; Poultry Diseases-- parasitology --PS

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.37 (Malate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19890411

Record Date Completed: 19890411

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DIALOG(R) File 155: MEDLINE(R)

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05281583 86282848 PMID: 3735889

Isozymes of chicken coccidia in Japan.

Nakamura T; Konishi T; Kawaguchi H

Nippon juigaku zasshi. The Japanese journal of veterinary science (JAPAN) Jun 1986, 48 (3) p587-90, ISSN 0021-5295 Journal Code: 0057113

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: Coccidiosis --veterinary--VE; * **Eimeria** --enzymology--EN; *Glucose-6-Phosphate Isomerase--genetics--GE; *Isoenzymes--genetics--GE; * Lactate Dehydrogenase --genetics--GE; *Poultry Diseases-- parasitology --PS; Coccidiosis -- parasitology --PS; **Eimeria** --genetics--GE; Japan; Variation (Genetics)

CAS Registry No.: 0 (Isoenzymes)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19860917

Record Date Completed: 19860917

9/9/7

DIALOG(R) File 155: MEDLINE(R)

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04427277 84069417 PMID: 6646805

Studies to determine the taxonomic status of **Eimeria** mitis, Tyzzer 1929 and **E. mivati**, Edgar and Seibold 1964.

Shirley M W; Jeffers T K; Long P L

Parasitology (ENGLAND) Oct 1983, 87 (Pt 2) p185-98, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

We have examined several taxonomic features of a number of strains of **Eimeria** from many sources world wide. The strains were isolated on the basis of their small spherical (or sub-spherical) oocysts. From a study of mean oocyst dimensions, electrophoretic variation of enzymes, ability to

develop in embryonated eggs, absence of gross lesions in heavily infected chickens, and cross-immunity, all the strains were found to belong to one species. For convenience, the **parasites** when isolated, were referred to as strains of *E. mitis/mivati*-type, but after characterization they were clearly found to be *E. mitis*. In contrast, a laboratory strain of *E. mivati* supplied to one of us (M.W.S.) was found to be a mixture of *E. acervulina* and *E. mitis*. Evidence from these and other studies supports the notion that *E. mivati* is a *nomina dubia*.

Tags: Animal; Comparative Study; Male
Descriptors: Chickens-- **parasitology**--PS; * **Eimeria**--classification--CL; Body Weight; Cross Reactions; **Eimeria**--immunology--IM; **Eimeria**--pathogenicity--PY; **Eimeria**--physiology--PH; Electrophoresis, Starch Gel; Glucose-6-Phosphate Isomerase--analysis--AN; Immunization; **Lactate Dehydrogenase**--analysis--AN

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19840107

Record Date Completed: 19840107

9/9/8

DIALOG(R) File 155: MEDLINE(R)

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04090980 83220370 PMID: 6856328

Enzyme activity of the tissues of chicks with coccidiosis (**Eimeria tenella**)

Aktivnost' nekotorykh fermentov tkanei tsypliat pri koktsidioze (**Eimeria tenella**).

Musaev M A; Elchiev Ia Ia; Mamedova G A

Parazitologiya (USSR) Mar-Apr 1983, 17 (2) p95-100, ISSN 0031-1847

Journal Code: 0101672

Document type: Journal Article ; English Abstract

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

It has been established that during experimental infection of chickens with **Eimeria tenella** the decrease in the activity of lactatdehydrogenase of blood serum and the increase of the activity of glutathionereductase in erythrocytes take place. In birds treated with chemcoccid (70 mg/kg of food) the activity of these ferments does not change. The ferment activity of glucose-6-phosphatdehydrogenase does not change in erythrocytes of sick birds while during the treatment with chemcoccid its activity increases. The activity of aspartate aminotransferase decreases in tissues of muscles and increases in liver and brain of sick birds. The activity of alanine aminotransferase decreases in the brain in three and increases in seven days after the infection.

Tags: Animal; Comparative Study

Descriptors: Chickens--metabolism--ME; * **Coccidiosis**--enzymology--EN; *Poultry Diseases--enzymology--EN; Brain--enzymology--EN; **Coccidiosis**--veterinary--VE; Erythrocytes--enzymology--EN; Glucosephosphate Dehydrogenase--blood--BL; Glutathione Reductase--blood--BL; Histocytchemistry; **Lactate Dehydrogenase**--blood--BL; Liver--enzymology--EN; Muscles--enzymology--EN; Transaminases--metabolism--ME

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate Dehydrogenase); EC 1.6.4.2 (Glutathione Reductase); EC 2.6.1. (Transaminases)

Record Date Created: 19830708

Record Date Completed: 19830708

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DIALOG(R) File 155: MEDLINE(R)

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03844132 82256366 PMID: 7103889

Attenuation of a strain of *Eimeria mivati* of U.S. origin by serial embryo passage.

Long P L; Johnson J; Gore T C
Avian diseases (UNITED STATES) Apr-Jun 1982, 26 (2) p305-13, ISSN
0005-2086 Journal Code: 0370617
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS

A strain of *Eimeria mivati* (FS50) isolated in Georgia was purified and serially passaged in groups of developing chicken embryos. Starch gel electrophoresis using glucose phosphate isomerase and lactate dehydrogenase showed the parasite to be similar to another strain of *E. mivati* isolated in the U.S. The embryo-passaged line of *E. mivati* (FS50) was less pathogenic than the parent line but retained its immunogenicity. This strain may be suitable for inclusion in an improved **coccidiosis** vaccine. The status of *E. mivati* and *E. mitis* is discussed.

Tags: Animal; Male; Support, Non-U.S. Gov't
Descriptors: Chick Embryo-- **parasitology**--PS; *Chickens-- **parasitology**--PS; * *Eimeria* --isolation and purification--IP; *Vaccines, Attenuated --isolation and purification--IP; **Coccidiosis** --prevention and control--PC; *Coccidiosis* --veterinary--VE; *Eimeria* --enzymology--EN; *Eimeria* --immunology--IM; *Eimeria* --pathogenicity--PY; Electrophoresis, Starch Gel; Glucose-6-Phosphate Isomerase--analysis--AN; **Lactate Dehydrogenase** --analysis--AN; Poultry Diseases--prevention and control--PC; Vaccination --veterinary--VE

CAS Registry No.: 0 (Vaccines, Attenuated)
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9
(Glucose-6-Phosphate Isomerase)
Record Date Created: 19820924
Record Date Completed: 19820924

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DIALOG(R) File 155: MEDLINE(R)
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03804681 82216507 PMID: 7086714
The biology and pathogenicity of a recent field isolate of *Eimeria praecox* Johnson, 1930.
Gore T C; Long P L
Journal of protozoology (UNITED STATES) Feb 1982, 29 (1) p82-5,
ISSN 0022-3921 Journal Code: 2985197R
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS

A recent isolate of *Eimeria praecox*, strain G, was obtained from Georgia and purified. Studies of the life history, pathogenicity, and cross-immunity of the isolate were conducted to verify its identity. In inoculated three-week-old chickens, the occurrence of merogony and gametogony was limited to the superficial epithelium of the upper intestine. Oocysts, 23 x 19.5 microns, with a shape index of 1.17 were first observed 83 h after inoculation. Mortality and morbidity were not observed in any of the experimental birds. However, there was a positive correlation between dose of oocysts, reduced weight gain, and the incidence of exudative diathesis. These studies showed that *E. praecox* depresses weight gains in chickens and may be of economic importance. Although complete immunity to avian **coccidiosis** is believed to be species specific, chickens immune to *E. praecox* (G) or *E. acervulina* had a degree of cross-immunity to a heterologous challenge. Electrophoretic analysis of glucose phosphate isomerase and lactate dehydrogenase prepared from the European strain of *E. praecox* and *E. praecox* (G) showed no differences, confirming the identity of the isolate as *E. praecox*.

Tags: Animal; Male
Descriptors: Chickens-- **parasitology**--PS; * *Eimeria* --pathogenicity--PY; *Intestines-- **parasitology**--PS; Body Weight; **Coccidiosis** --immunology--IM; Cross Reactions; *Eimeria* --growth and development--GD; *Eimeria* --immunology--IM; Glucosephosphate Dehydrogenase--analysis--AN; Isoenzymes

--analysis--AN; **Lactate Dehydrogenase** --analysis--AN
CAS Registry No.: 0 (Isoenzymes)
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49
(Glucosephosphate Dehydrogenase)
Record Date Created: 19820807
Record Date Completed: 19820807

9/9/11

DIALOG(R) File 155: MEDLINE(R)
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03068132 79246004 PMID: 471536
A reappraisal of the taxonomic status of **Eimeria mivati** Edgar and Seibold 1964, by enzyme electrophoresis and cross-immunity tests.

Shirley M W
Parasitology (ENGLAND) Apr 1979, 78 (2) p221-37, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

An examination of 2 strains of **Eimeria acervulina** var. **mivati** (since 1973 **E. mivati** has been regarded as a variant of **E. acervulina**) showed that previous confusion over the taxonomic status of **E. mivati** arose because the investigations were done using laboratory cultures of **E. mivati** which were contaminated with **E. acervulina**. Electrophoretic analyses of enzymes, host specificity and cross-immunity tests have revealed that: (1) The 1971 Houghton strain of **E. acervulina** var. **mivati** was a mixture of 2 **parasites**. (a) Passage of this strain in embryonating eggs resulted in a selection against that **parasite** previously characterized as **E. acervulina**. (b) The **parasite** which did reproduce in eggs did not immunize chickens against subsequent challenge with **E. acervulina**. This **parasite** is most likely **E. mivati**. (c) **E. mivati** recovered from eggs did, however, immunize chickens against challenge with a new field strain which was morphologically identical to **E. mivati** and characterized by the same electrophoretic forms of 2 enzymes. (2) A strain of **E. acervulina** var. **mivati** from the USA was also a mixture of **E. acervulina** and **E. mivati**.

Tags: Animal

Descriptors: **Eimeria** --classification--CL; Chick Embryo; Cross Reactions; **Eimeria** --enzymology--EN; **Eimeria** --immunology--IM; Electrophoresis; Glucose-6-Phosphate Isomerase--analysis--AN; Glucosephosphate Dehydrogenase --analysis--AN; **Lactate Dehydrogenase** --analysis--AN; Phosphogluconate Dehydrogenase--analysis--AN

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.43 (Phosphogluconate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)

Record Date Created: 19791024

Record Date Completed: 19791024

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DIALOG(R) File 155: MEDLINE(R)
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02924020 79099449 PMID: 735305

Alteration of enzyme activities in serum of **Eimeria stiedai** infected rabbits (author's transl)]

Veranderungen der Enzymaktivitaten im Serum bei **Eimeria stiedai** infizierten Kaninchen.

Hein B; Lammle G

Zeitschrift fur Parasitenkunde (Berlin, Germany) (GERMANY, WEST) Nov 27 1978, 57 (3) p199-211, ISSN 0044-3255 Journal Code: 8710749

Document type: Journal Article ; English Abstract

Languages: GERMAN

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

In experimental investigations on **Eimeria stiedai** infected rabbits, serum enzymatic studies have been carried out in correlation with the examination of **parasitological** and pathological parameters. The rabbits were orally infected with a single dose of either 100,000 or 250,000 sporulated oocysts. Increase of the activity of the sorbit dehydrogenase (SDH), glutamate oxalate transaminase (GOT), glutamate pyruvate transaminase (GPT) and glutamate dehydrogenase (G1DH) could be found first between 3 and 10 days after infection indicating the beginning of the acute phase of liver **coccidiosis**. The increase of the conjugated bilirubin and of the gamma-glutamyl-transferase (gamma-GT) could be found not earlier than 10 days after infection and is to be explained as sign of disturbed efficiency of excretion. The various investigated parameters reached their peak of alteration about the end of the prepatent period and at the beginning of patency between 14 and 21 days after infection. The results emphasize the value and usefulness of serum enzymes, particularly the glutamate dehydrogenase (G1DH) and the gamma-glutamyl-transferase (gamma-GT) with about 30fold activity, as indicators in the course of **Eimeria stiedai** infection of rabbits. The enzymes returned to physiological values at the end of the experiment, 42 days after infection. Significant differences could not be detected within the infected groups. The activities of the alkaline phosphatase (AP), leucine aminopeptidase (LAP), choline esterase (ChE), lactate dehydrogenase (LDH) and isoenzyme 1 (alpha-HBDH) showed only slight alterations and proved to be no significant parameters for the pathophysiological evaluation of the liver **coccidiosis**

Tags: Animal; Male
Descriptors: **Coccidiosis** --enzymology--EN; **Bilirubin**--blood--BL;
Coccidiosis --blood--BL; **Coccidiosis** -- **parasitology** --PS; **Eimeria**
--growth and development--GD; **Glutamate Dehydrogenase**--blood--BL;
Hydrolases--blood--BL; **Isoenzymes**; **L-Iditol 2-Dehydrogenase**--blood--BL;
Lactate Dehydrogenase --blood--BL; **Rabbits**; **Transaminases**--blood--BL
CAS Registry No.: 0 (Isoenzymes); 635-65-4 (Bilirubin)
Enzyme No.: EC 1.1.1.14 (L-Iditol 2-Dehydrogenase); EC 1.1.1.27
(Lactate Dehydrogenase); EC 1.4.1.2 (Glutamate Dehydrogenase); EC 2.6.1.
(Transaminases); EC 3. (Hydrolases)
Record Date Created: 19790324
Record Date Completed: 19790324

9/9/13
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

02903907 79078933 PMID: 726560
Electrophoretic variation of enzymes: a further marker for genetic studies of the Eimeria .
Shirley M W
Zeitschrift fur Parasitenkunde (Berlin, Germany) (GERMANY, WEST) Sep 4
1978, 57 (1) p83-7, ISSN 0044-3255 Journal Code: 8710749
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS
Embryo-adapted strains of **Eimeria mivati** and **E. mivati** var. **diminuta**, differing in their sensitivity to sulphaquinoxaline and electrophoretic mobilities of lactate dehydrogenase, were crossed. **E. mivati** was sulphaquinoxaline-resistant and characterised by an electrophoretic form of the enzyme denoted lactate dehydrogenase-1 whereas **E. mivati** var. **diminuta** was sulphaquinoxaline-sensitive and characterised by lactate dehydrogenase-6. Progeny recovered from the cross were passaged in embryonating eggs given sulphaquinoxaline and the (drug-resistant) **parasites** recovered were characterised by both lactate dehydrogenase-1 and lactate dehydrogenase-6. Controls showed that those **parasites** characterised by the recombinant phenotype of drug-resistant and lactate dehydrogenase-6 had been produced by the cross-fertilisation of gametes.

Tags: Animal
Descriptors: **Eimeria** --genetics--GE; * **Lactate Dehydrogenase** --genetics
--GE; *Recombination, Genetic; Chick Embryo-- **parasitology** --PS; Drug

Resistance, Microbial; **Eimeria** --drug effects--DE; **Eimeria** --enzymology--EN; **Eimeria** --physiology--PH; Isoenzymes; Lactate Dehydrogenase--biosynthesis--BI; Spores; Sulfaquinoxaline--pharmacology--PD
CAS Registry No.: 0 (Isoenzymes); 59-40-5 (Sulfaquinoxaline)
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)
Record Date Created: 19790221
Record Date Completed: 19790221

9/9/14

DIALOG(R) File 155: MEDLINE(R)
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02625433 78051975 PMID: 927886

Strain variations within Eimeria meleagrimitis from the turkey.

Long P L; Millard B J; Shirley M W

Parasitology (ENGLAND) Oct 1977, 75 (2) p177-82, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

During the course of a field study of **coccidiosis** in turkeys, **Eimeria** oocysts were found which had much smaller dimensions than any previously recorded isolate from the turkey. These oocysts were purified by single oocyst infection of a turkey. The first oocysts (mean dimensions 16-15 X 14-75 micrometer) were recovered 103 h later. Inoculation of between 0-5 and 2-5 X 10(5) oocysts of this isolate caused severe effects on body weight gain. Cross-immunity studies showed the **parasite** to be a strain of **E. meleagrimitis**. Electrophoretic analyses of two enzymes showed that the strain could be differentiated from another strain of **E. meleagrimitis** (Weybridge strain B). The results show that strain variation occurs within the species **E. meleagrimitis** and extreme caution should be used in identifying species of **Eimeria** from the turkey by the oocyst characters.

Tags: Animal

Descriptors: **Eimeria** --classification--CL; *Turkeys-- **parasitology** --PS

Eimeria --pathogenicity--PY; **Eimeria** --physiology--PH;

Glucose-6-Phosphate Isomerase--analysis--AN; Lactate Dehydrogenase--analysis--AN; Species Specificity

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 5.3.1.9

(Glucose-6-Phosphate Isomerase)

Record Date Created: 19780127

Record Date Completed: 19780127

9/9/15

DIALOG(R) File 155: MEDLINE(R)
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02625432 78051974 PMID: 927885

Studies on the growth, chemotherapy and enzyme variation of Eimeria acervulina var. diminuta and E. acervulina var. mivati.

Shirley M W; Millard B J; Long P L

Parasitology (ENGLAND) Oct 1977, 75 (2) p165-76, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Eimeria acervulina var. **diminuta** was serially passaged 12 times in chicken embryos, but growth in cultured chick kidney cells was limited to 2 generations of schizonts. After 7 embryo passages the sensitivities of **E. acervulina** var. **diminuta** and an embryo-adapted strain of **E. acervulina** var. **mivati** to the anticoccidial drugs amprolium, methyl benzylquate, robenidine and sulphaquinoxaline were compared. Both **parasites** were sensitive to all the anticoccidials but **E. acervulina** var. **diminuta** was more sensitive to sulphaquinoxaline and amprolium. The chicken-maintained strain of **E.**

acervulina var. *diminuta* was extremely sensitive to clopidol, sulphaquinoxaline and decoquinate. Electrophoretic analyses of several enzymes from *E. acervulina* var. *diminuta* revealed enzyme profiles with similarities and differences to the embryo-adapted strain of *E. acervulina* var. *mivati*.

Tags: Animal; Comparative Study

Descriptors: **Coccidiostats** --pharmacology--PD; * **Eimeria** ; Cells, Cultured; **Eimeria** --drug effects--DE; **Eimeria** --enzymology--EN; **Eimeria** --growth and development--GD; Glucose-6-Phosphate Isomerase --analysis--AN; Glucosephosphate Dehydrogenase--analysis--AN; **Lactate Dehydrogenase** --analysis--AN; Oxidoreductases--analysis--AN; Phosphoglucomutase--analysis--AN

CAS Registry No.: 0 (Coccidiostats)

Enzyme No.: EC 1. (Oxidoreductases); EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase); EC 5.4.2.2 (Phosphoglucomutase)

Record Date Created: 19780127

Record Date Completed: 19780127

9/9/16

DIALOG(R) File 155: MEDLINE(R)

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02477294 77167679 PMID: 859094

Isoelectric focusing of coccidial enzymes.

Shirley M W; Lee D L

Journal of parasitology (UNITED STATES) Apr 1977, 63 (2) p390-2,
ISSN 0022-3395 Journal Code: 7803124

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: **Eimeria** --enzymology--EN; Isoelectric Focusing; Isoenzymes; **Lactate Dehydrogenase** --isolation and purification--IP

CAS Registry No.: 0 (Isoenzymes)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)

Record Date Created: 19770630

Record Date Completed: 19770630

9/9/17

DIALOG(R) File 155: MEDLINE(R)

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02125300 76076735 PMID: 1202411

Enzyme variation in *Eimeria* species of the chicken.

Shirley M W

Parasitology (ENGLAND) Dec 1975, 71 (3) p369-76, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

A method for the biochemical identification of protozoa belonging to the genus **Eimeria** is described for the first time. Starch gel electrophoresis of the enzymes lactate dehydrogenase, glucose phosphate isomerase, 6-phosphogluconate dehydrogenase and glucose-6-phosphate dehydrogenase from **parasite** extracts revealed both intra- and inter-species differences when 11 strains representative of 6 species of **Eimeria** were examined. Oocysts were the most accessible **parasite** stage for investigation but **sporozoites** and **merozoites** of an embryo-adapted strain of *E. tenella* were also examined for enzyme activity.

Tags: Animal

Descriptors: Chickens-- **parasitology** --PS; * **Eimeria** --enzymology--EN; Chick Embryo; Glucose-6-Phosphate Isomerase--metabolism--ME; Glucosephospho

te Dehydrogenase--metabolism--ME; **Lactate Dehydrogenase** --metabolism--ME;
Phosphogluconate Dehydrogenase--metabolism--ME
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.43
(Phosphogluconate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate
Dehydrogenase); EC 5.3.1.9 (Glucose-6-Phosphate Isomerase)
Record Date Created: 19760301
Record Date Completed: 19760301

9/9/18

DIALOG(R) File 155: MEDLINE(R)
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01460771 73083928 PMID: 4346146
Enzymes of coccidia : purification and properties of L-lactate dehydrogenase from *Eimeria stiedae*.
Frandsen J C; Cooper J A
Experimental parasitology (UNITED STATES) Dec 1972, 32 (3) p390-402,
ISSN 0014-4894 Journal Code: 0370713
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS
Tags: Animal
Descriptors: **Eimeria** --enzymology--EN; * **Lactate Dehydrogenase**--isolation and purification--IP; Ammonium Sulfate; Buffers; Centrifugation; Chromatography, Gel; Dialysis; **Eimeria** --isolation and purification--IP; Electrophoresis, Disc; Hydrogen-Ion Concentration; Isoenzymes; Kinetics; Lactates; Liver--microbiology--MI; Methods; NAD; Oxidation-Reduction; Pressure; Pyruvates; Rabbits; Temperature
CAS Registry No.: 0 (Buffers); 0 (Isoenzymes); 0 (Lactates); 0 (Pyruvates); 53-84-9 (NAD); 7783-20-2 (Ammonium Sulfate)
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase)
Record Date Created: 19730319
Record Date Completed: 19730319

9/9/19

DIALOG(R) File 155: MEDLINE(R)
(c) format only 2003 The Dialog Corp. All rts. reserv.

00806844 70113596 PMID: 5414955
***Eimeria stiedae*: cytochemical identification of enzymes and lipids in sporozoites and endogenous stages.**
Frandsen J C
Experimental parasitology (UNITED STATES) Feb 1970, 27 (1) p100-15,
ISSN 0014-4894 Journal Code: 0370713
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS
Descriptors: **Eimeria** --analysis--AN; * **Eimeria** --enzymology--EN; *Lipids--analysis--AN; Acid Phosphatase--analysis--AN; Alkaline Phosphatase--analysis--AN; **Eimeria** --cytology--CY; **Eimeria** --growth and development--GD; Esterases--analysis--AN; Fructose-Bisphosphate Aldolase--analysis--AN; Galactosidases--analysis--AN; Glucosephosphate Dehydrogenase--analysis--AN; Glucosidases--analysis--AN; Histocytchemistry; **Lactate Dehydrogenase** --analysis--AN; Leucyl Aminopeptidase--analysis--AN; Metamorphosis, Biological
CAS Registry No.: 0 (Lipids)
Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate Dehydrogenase); EC 3.1. (Esterases); EC 3.1.3.1 (Alkaline Phosphatase); EC 3.1.3.2 (Acid Phosphatase); EC 3.2.1.- (Galactosidases); EC 3.2.1.- (Glucosidases); EC 3.4.11.1 (Leucyl Aminopeptidase); EC 4.1.2.13 (Fructose-Bisphosphate Aldolase)
Record Date Created: 19700402
Record Date Completed: 19700402

9/9/20

DIALOG(R) File 155: MEDLINE(R)

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00547925 69079196 PMID: 5701763

Eimeria stiedae: cytochemical identification of acid and alkaline phosphatases, carboxylic ester hydrolases, and succinate, lactate, and glucose-6-phosphate dehydrogenases in endogenous stages from rabbit tissues.

Frandsen J C

Experimental parasitology (UNITED STATES) Dec 1968, 23 (3) p398-411,
ISSN 0014-4894 Journal Code: 0370713

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Animal

Descriptors: **Eimeria** --enzymology--EN; *Enzymes--analysis--AN; Acid Phosphatase--analysis--AN; Alkaline Phosphatase--analysis--AN; Esterases --analysis--AN; Glucosephosphate Dehydrogenase--analysis--AN; Histocytology; **Lactate Dehydrogenase** --analysis--AN; Liver--enzymology--EN; Rabbits; Succinate Dehydrogenase--analysis--AN

CAS Registry No.: 0 (Enzymes)

Enzyme No.: EC 1.1.1.27 (Lactate Dehydrogenase); EC 1.1.1.49 (Glucosephosphate Dehydrogenase); EC 1.3.99.1 (Succinate Dehydrogenase); EC 3.1. (Esterases); EC 3.1.3.1 (Alkaline Phosphatase); EC 3.1.3.2 (Acid Phosphatase)

Record Date Created: 19690217

Record Date Completed: 19690217

?ds

STIC-ILL

Vol no 5/15

445 981

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:41 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

2125300 76076735 PMID: 1202411

Enzyme variation in *Eimeria* species of the chicken.

Shirley M W

Parasitology (ENGLAND) Dec 1975, 71 (3) p369-76, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Ginny Portner

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102(6)
Claims
1-3, 11-13
16-29
vacine 29
use intended
24, 11, 12
19

16579957

STIC-ILL

10584353

NO 5/15

445976

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:37 AM
To: STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

06920706 91161087 PMID: 2488045

Starch gel electrophoresis of lactate dehydrogenase and glucose phosphate isomerase of poultry coccidia using the LKB multiphor.

Kucera J

Research Institute of Feed Supplements and Veterinary Drugs, Jilove,
Prague, Czechoslovakia.

Folia parasitologica (CZECHOSLOVAKIA) 1989, 36 (4) p295-9, ISSN
0015-5683 Journal Code: 0065750

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

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436.8. C33

102(6)
Claims 1-3, 16-18, 23

racine intended use

JKL

STIC-ILL

NO 5/15

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:36 AM
To: STIC-ILL
Cc: Smith, Lynette
Subj: ct: 09/380,846; references requested for lactate dehydrogenase claims
Importance: High

445977

07299917 92162849 PMID: 1790225
Enzyme variation of *Eimeria acervulina* and *E. tenella* isolated from
poultry farms in Japan.
Nakamura T; Kawaguchi H; Imose J; Ogimoto K
Aburahi Laboratory, Shionogi Research Laboratories, Shionogi & Co., Ltd.,
Shiga, Japan.
Journal of veterinary medical science / the Japanese Society of
Veterinary Science (JAPAN) Dec 1991, 53 (6) p1101-3, ISSN 0916-7250
Journal Code: 9105360
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed
Subfile: INDEX MEDICUS

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102(6)
Claims 13, 18, 16, 17
23, 16567918
incomplete

STIC-ILL

Val no 5/15

448.5.982

From: Portner, Ginny
Sent: Thursday, May 15, 2003 11:39 AM
T : STIC-ILL
Cc: Smith, Lynette
Subject: 09/380,846; references requested for lactate dehydrogenase claims

03068132 79246004 PMID: 471536

A reappraisal of the taxonomic status of *Eimeria mivati* Edgar and Seibold 1964, by enzyme electrophoresis and cross-immunity tests.

Shirley M W
Parasitology (ENGLAND) Apr 1979, 78 (2) p221-37, ISSN 0031-1820

Journal Code: 0401121

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

448.5. P21

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7.96

10579950